

State of the Art Report

Methods and Metrics in Human Performance Modeling

Assessing Individual and Small Unit Performance for Developing Combat Simulations

Sponsored by the US Army's Medical Research and Materiel Command, this State-of-the-Art Report hopes to meet the challenge -- called for in Pew and Maver's *Modeling Human and Organizational Behavior: Application to Military Simulations* -- to promote our understanding of the psychological, organizational, and sociological processes that underlie human behavior. The need to accurately represent the behaviors of the individual and small unit is vital if military simulations are to advance to a state where they will be truly realistic and useful in predicting combat outcomes.

This SOAR focuses on the challenge of defining and measuring performance at the cutting edge of combat, drawing on the context and lexicon of the war planner, and incorporating the tenets set forth in the latest Quadrennial Defense Review. Quantifying these crucial behaviors will lead to accurate models that offer valid prediction of soldier and small unit outcomes.

The book is divided into three sections: *Conceptual and Methodological Issues*, *Measuring Military-Relevant Performance*, and *Analytical Issues and Recommendations*.

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